

WHAT IS CLAIMED IS:

Sub A1
1. A bit synchronizing circuit used for a reception circuit for serial communication, comprising:

a polyphase clock generation circuit for generating a plurality of clocks which are out of phase with each other by a regular interval, based on an input clock; and

a detection circuit for detecting which clock has a phase shift of an integral multiple of a clock cycle among the clocks generated by the polyphase clock generation circuit with respect to the input clock.

2. The bit synchronizing circuit of claim 1, wherein the polyphase clock generation circuit is formed by connecting a plurality of delay circuits which delay the input clock by almost the same amount of time.

3. The bit synchronizing circuit of claim 1, comprising:
a logic circuit to which an output from the detection circuit is inputted; and

a latch circuit to which an output from the logic circuit is inputted and of which an output is inputted to the logic circuit.

4. The bit synchronizing circuit of claim 3, wherein the data of the latch circuit is cleared with a constant timing.

5. The bit synchronizing circuit of claim 1, comprising:
an operational circuit for sampling an output from the
detection circuit a plurality of times and carrying out
operations on sampled values.

6. The bit synchronizing circuit of claim 1, wherein an
output from the detection circuit is held for a constant cycle
time and is updated at each constant time unit.

7. The bit synchronizing circuit of claim 6, wherein the
output from the detection circuit is held at the time of bit
data reception.

8. The bit synchronizing circuit of claim 1, comprising:
a plurality of bit synchronous working circuits to which
a polyphase clock is inputted from the polyphase clock
generation circuit so that a bit synchronizing operation is
carried out at each different phase; and

a selecting circuit for selecting outputs from the
plurality of bit synchronous working circuits, based on the
detection result of the detection circuit.

9. The bit synchronizing circuit of claim 9, comprising:

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